



THE

June 2016

PROPAGATOR

The Monthly Newsletter of the South Orange Amateur Radio Association

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Meeting

June 20, 2016

7:00 PM

N.P.
Murray Center
Veterans
Way
Mission Viejo

Field Day 2016

June is a busy month for SOARA and the main event is coming up next weekend! Here is a breakdown of the remaining events for Field Day preparation & operation.

Monday, June 20

Please join us at this month's SOARA meeting, which will focus on Field Day. Besides providing the necessary information to help you to enjoy the event, we will also be looking for volunteers for the remaining volunteer positions. **NO TESTING at the meeting this month (see Field Day).**

Friday, June 24

We will start setting-up on Friday, 3pm, at **Gilleran Park...** **See page 2 for a map.** Tents, antennas, coax, radio stations, etc. should be up by 6pm, after which we can enjoy some dinner. We need all the help we can get to build our Field Day "City"!

Saturday, June 25

Please show up at 9am at **Gilleran Park** to help make final adjustments prior to commencement of Field Day. Then get on the air! We begin making contacts at 11:00am. Field Day continues through-out the day and night. Those that care to may bring a tent and/or sleeping bag to catch some sleep at the park during the night.

Sunday, June 26

Field Day contacts continue until 10:59:59 am on Sunday morning at which time we stop operating and begin taking down the tents, antennas, radios, tables, etc. and moving them back to the container. Again, we will appreciate all the help we can get with the cables, antennas, radios, etc.

The full **Field Day Schedule** is on the [SOARA website](#).



President's Message

School's out, Field Day is next weekend, the weather is warming, so these are sure signs that summer is upon us. The beginning of summer is also the beginning of many opportunities to employ and enjoy our hobby of Amateur Radio. One, of course was just mentioned: Field Day. I sincerely hope as many of you as possibly can come out to Gilleran Park and join us for the fun.

Other opportunities include, operating while traveling on vacation. I never travel without at least a handheld, taking the opportunity to try out the local repeaters from the hotel, and making new acquaintances. Another vacation opportunity that has been mentioned in this column before is the ongoing National Parks on the Air, or NPOTA. NPOTA is ARRL coordinated portable HF operations from a National Park to help the National Park Service celebrate the 100th anniversary of their organization.

(Continued on page 5)



Field Day Prep Meeting
June 20

ARRL Field Day
Jun 24-26
[FD Info](#)

Street Faire & Fireworks
July 4

HRO Ham Jam
July 16

SOARA Picnic
August 7

VEC License Exams

2pm Saturday—
at Field Day
(No testing at the general meeting this month)

Please see our [website](#) for more info.

Walk-ins ok.

Extra | General | Technician

More Info on Field Day



SOARA will be sponsoring ARRL Field Day again this year at **Gilleran Park in Mission Viejo**. Make sure you clear your calendar for **Saturday, June 25 and Sunday, June 26**. Set up begins on Friday, June 24 at 3pm. Hope to see you there! More information is available on the website at www.soara.org.

Despite the Internet, cell phones, email and modern communications, every year whole regions find themselves in the dark. Earthquakes, fires, storms, tornadoes, ice and even the occasional cutting of fiber optic cables leave people without the means to communicate. In these cases, the one consistent service that has never failed has been Amateur Radio. These radio operators, often called “hams” provide backup communications for everything from the American Red Cross to FEMA and even for the International Space Station.

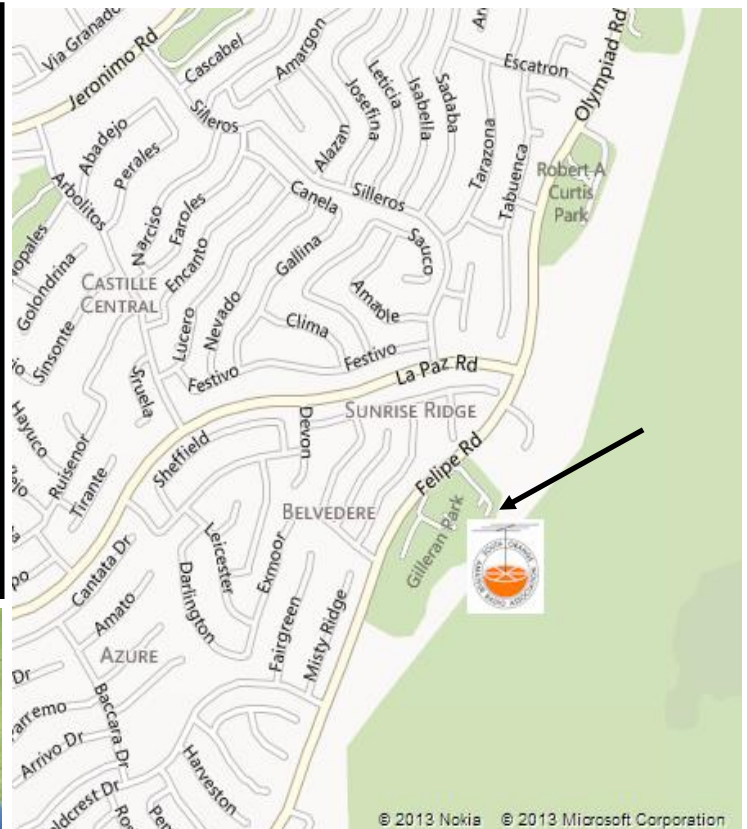
“Field Day” is the climax of the week long “Amateur Radio Week” sponsored by the ARRL, the national association for Amateur Radio. Using only emergency power supplies, ham operators will construct emergency stations in parks, shopping malls, schools and backyards around the country. Their slogan, “When All Else Fails, Ham Radio Works” is more than just words to the hams as they prove they can send messages in many forms without the use of phone systems, internet or any other infrastructure that can be compromised in a crisis. More than 35,000 amateur radio operators across the country participated in last year’s event.

Some of our Antennas:

- ⇒ Beams: 20m, 15m, 10m, 6m, 2m & 440
- ⇒ Wire antennas for 40m and 80m
- ⇒ Tri-band beam for GOTA (10, 15, 20 + 40m dipole)
- ⇒ The “batting cage” vertical (80-10m)

Stations to operate (3A):

- ⇒ CW HF station
- ⇒ SSB HF station
- ⇒ SSB/Digital HF station
- ⇒ GOTA station - also HF
- ⇒ VHF/UHF station: 6m, 2m, 220 and 440



Gilleran Park—Site of SOARA’s Field Day Activities.

24960 Felipe Road, Mission Viejo, CA 92692 between La Paz and Oso Parkway on Felipe Rd. in Mission Viejo

We are in the ***upper*** part of the park.



The K7RA Solar Update 6/17/16

That was a little scary seeing the daily sunspot number at zero for four days, June 3-6, but conditions seem to have recovered nicely.

Average daily sunspot number for this reporting week (June 9-15) was 29.1, up from 7.7 the previous week. The minimum non-zero sunspot number is 11, due to the way sunspots are counted. **A sunspot number of 11 does not mean there are 11 sunspots.** It means there is one sunspot (counting as one point) in one sunspot group (adding 10 points). A second sunspot raises the sunspot number to 12, unless that spot is on its own and not clustered with the other spot, in which case the sunspot number would be 22. So that average daily sunspot number of 7.7 from the previous week is due to the fact that four out of the seven days had sunspot numbers of zero. The rest were 27, 12 and 15. **You would never see a day with an actual sunspot number of 7.7.**

[WM7D's Solar resource Page](#)

Announced DX Operations website:

<http://www.nq3k.com/misc/adxo.html>

Irvine Cubesat Program Requests Amateur Radio Help

The Cube Satellite program is a program that involves the construction, deploying, and successful communication with a satellite measuring 10 cm x 10cm x 10cm. The schools involved are four from the Irvine Unified School District, and one from Tustin Unified school district. Woodbridge High School, my high school, is in charge of the communications to and from the satellite. The other schools are in charge of things from propulsion (orbital calculations and adjustments as well as hardware) to prime (the payload consisting of a 3 mega pixel camera and sun sensors. Our satellite will be launched from Russia with a tentative launch date of March 1, 2017.

Now, on to the HAM stuff. At some point during this month or next month the Communications Team and the Propulsion Team will be conducting a drill to see how quickly we can identify a satellite. We will be requesting the help of local HAMs, such as yourselves, as well as from HAMs around the world. We will be choosing a satellite, then requesting our HAM helpers to listen for the beacon from the satellite and then identify where they were when they heard it as well as when they heard it as well as where the satellite was (altitude and azimuth) when they heard it. Once the HAMs have gotten this data, we will request that they submit the data to some, as of yet undetermined, place where the Communication Team will compile the data and then forward that information to the Propulsion Team who will use that data to calculate an orbit and identify the satellite. This drill will be a test for what we will need to do when our satellite is launched and we need to locate it and establish communication with the satellite.



If you have any further questions feel free to contact me at this email address: 17sandoval@gmail.com or KM6ATX@soara.org

Our Cube Sat Twitter: @irvinecubesat

73, Matthew Sandoval, KM6ATX

Battery Box - Hands On

This is not going to be an official SOARA class, but some people have shown some interest and I am open to doing a class on Saturday morning before field day (June 24) starts at around 8:30. I have a hard stop around 10:30 to start prepping for lunch so it will have to be early.

So, if people are interested and bring their materials I can show you how to build a battery box.

I will be spending the night/weekend there in the motor home so I should be up early and can do the class before FD starts and can set up a table and tools for those that are interested.

I was planning on doing a Gen 3 box which is easier to make and cost less. We will not need the terminal block or the shoring blocks which makes the build faster and less expensive. This is based on Ray's variation.

Tony
W6TNY





Membership Report

SOARA is now 216 active members. I think this might be another SOARA record! So, now lets have more people on the radio and participating in the events. We have all types of interesting activities. Pick one or more events and just do it! I particularly enjoy the Nets. I occasionally backup Phil on the HF Sunday morning net.

Go

to www.soara.org and get the details on the calendar.

For June, no new members. If you know someone that wants to get started in ham radio lets help them!

Badges

If you want a new badge, email membership@soara.org. Tell me your name and callsign as you want it on the badge. I will make you a new badge with all the handy repeater information on the back. You can pick up badges at most SOARA events.

At least, the ones I attend.

Repeater User's Guide & Membership Manual I have plenty of manuals with a wealth of SOARA information for easy reference.

I hope to hear you on the radio and see you at the upcoming SOARA events! Field day will be here before you know it. Go the club calendar

at www.soara.org for more information on future events.

73,

Ed Barnes, WA6ED
Membership Director
membership@soara.org

HRO Ham Jam

From HRO: Our 5th Annual HRO Ham Jam is coming up!

Saturday, July 16, 2016 is the date, store hours are 10AM-5:30PM, and once again we will be hosting our local clubs and communications specialists in the store parking lot for another educational and fun event.

Come tour the OC RACES communications van as well as the Anaheim RACES trailer, learn about Hospital Disaster Services, and see how many of the clubs like the San Diego Six Shooters, the Motorcycle Amateur Radio Club, SOARA, WARA, and others who have not yet committed before newsletter deadline time make various activities available to local hams.

The Eagle Scouts will be providing a hotdog lunch this year, and Mr. Gordon West and representatives from ARRL, Comet Antennas, Ham Radio Deluxe, Icom, Kenwood, Pryme, and Yaesu will be available for questions (listen for announcements throughout the day for impromptu informational gatherings, satellite passes, or how-to sessions.)

License testing will also be available most of the day; if interested in testing, please call Janet at the store at 714-533-7373 with name and contact information so that we may plan for appropriate seating.

Three prize drawings will be held throughout the day at 11AM, 1:30PM, and 3PM. Winners will need to be present to win goodies from many of our suppliers who have donated some really great stuff!

Come join us for a fun-filled Saturday of ham radio; make it your goal to leave having learned at least one new thing and/or shared your own knowledge with at least one new ham.

Kind 73,
Janet Margelli, KL7MF
Manager

Ham Radio Outlet
933 N. Euclid St.

Anaheim, CA 92801

(714)533-7373 Tel

anaheim@hamradio.com



SOARA Saturday Report

The May SOARA Saturday was really busy at Gilleran park. We played with UHF, VHF, HF, JT9, Analyzers, & antennas. Heiko put up a random wire antenna with a sling shot. Everybody stay away when Heiko has a sling shot! That lead weight can do some damage. Heiko played with my Icom IC-7300 on voice. I had my antenna analyzer and helped Lambert and another member check out their antennas. Charley fired up the generator and we were able to use that power too. Charley setup a table with all of his emergency radio equipment. I could spend hours studying Charlie's setup and talking to him. That guy knows his stuff. Scott had his buddy pole up and running and Sean was playing with his KX3. Now that KX3 is a portable HF rig. It was amazing. There was tons of stuff going on. Sorry if I missed something. I really need a sign in sheet.

The June SOARA Saturday was at Gilleran Park on 6/18. We did pre-field day setup needed and then played with radios. I find this informal environment very educational. It's easy to ask questions and learn. So, show up and have fun. Yes, Ham Radio is the original form of networking. We will have coffee and donuts too. Enjoy a Saturday morning in the park and play with radios. What could be better?

73,

Ed, WA6ED, Temporary SOARA Saturday Appointee



T-Hunt News

[Last] month's hunt (5/1/16) was very challenging. Clark picked a high location near the corner of Niguel Ranch Rd. and Stonegate Ln. near a park just southeast of Crown Valley Pkwy and La Plata Dr. The problem was that he stuck the transmitter back behind a bush with the beam pointed in a northerly direction about a foot off the ground.

While the location was relatively high, it was shielded to the east by a rise in the surrounding terrain and being situated so low to the ground, the signal was spotty and very difficult to hear, in fact Alan and I, northbound on the 73, didn't hear it until we were just south of Aliso Creek. Even then, it took us another forty five minutes casting about trying to pin down a decent signal to get a good bearing.

Ron, WA6CYY, beat us to the area by a few minutes but I spotted it before he did (I was about ten feet closer than he was). Unfortunately, we were the only two teams hunting. Richard and Mike were enjoying their evening at some local pub in the UK and didn't feel like hunting, for some odd reason. Does that mean I beat Richard? Probably not, but I will take it anyway.

Here is hoping there are more hunters next month.

73,
Gray WA6BJY

Mission Viejo 4th of July Street Faire and Fireworks Spectacular

Volunteers Needed

It's the best seat in the house for the fireworks show (6-9:30pm slot).

Please email wa6ruz@gmail.com stating where you can help!

(if you can fill any of the below time slots below PLEASE email the time slot(s) you will work) (please include cellphone number) THANKS

The following list is of the time slots, please check with Charley for updated availability:

9:00 - 12:30 (3.5 HOURS):	6 slots (4 available)
12:00 - 3:30 (3.5 HOURS):	6 slots (4 available)
3:00 - 6:30 (3.5 HOURS):	8 slots (7 available)
6:00 - 9:30 (aprox. 3.5 HOURS):	10 slots (9 available)

Thanks,
Charley Speelman, WA6RUZ
RACES Radio Officer & ARES Emergency
Coordinator
949.463-3658 – cell
wa6ruz@gmail.com

Mission Viejo RACES-ARES
<http://www.mvraces.org>
mvraces@mvraces.org
949. 257-2237 – RACES Message Line



(Continued from page 1) - *President's Message*

With the advent of summer, with Sporadic-E and tropical ducting, VHF FM contacts occasionally become possible between mainland California and the Hawaiian Islands. Although somewhat infrequent, these occurrences can be lots of fun. Also look for 6 meter openings during the summer months.

Summer brings the beginning of Wildfire Season, as the several fires currently burning in Southern CA attest. This presents an opportunity to volunteer and become trained to work with the OC Fire Watch or several other similar groups who help raise wild fire awareness, and promote fire safety in our regional parks and back country, as well as help provide early reporting of fire starts. OC Fire Watch uses our 447.180 repeater to coordinate during their activations, so if you hear the OC Fire Watch Net, be sure to share the repeater with them and give their traffic priority.

SOARA will be having our annual summer picnic in August, with opportunities to enjoy the beach, fellowship, some good food, and of course, portable HF operations, and possibly a short, simple T-hunt. The whole family is welcome.

In summary, (Pun Intended) summer is a great time to find ways to enjoy our hobby, so be alert for the opportunities.

73 to all, and see you at Field Day.

Ray, AE6H

ARRL, Community Associations Institute Find Common Ground on Parity Act:

from The ARRL Letter on June 9, 2016

[View comments about this article!](#)

ARRL and the Community Associations Institute (CAI <https://www.caionline.org/>) -- the national association of homeowners associations (HOAs) -- have reached consensus on provisions of the Amateur Radio Parity Act <http://www.arrl.org/amateur-radio-parity-act>, H.R. 1301. ARRL and CAI have worked intensively since February to reach agreement on substitute language for the bill in an effort to move it through the US House Energy and Commerce Committee and to overcome objections to the companion US Senate bill, S. 1685. Along the way, the offices of U.S. Representatives Adam Kinzinger (R-IL), Greg Walden, W7EQI, (R-OR), and Anna Eshoo (D-CA) mediated and offered assistance.

ARRL Hudson Division Director and Legislative Affairs Committee Chairman Mike Lisenco, N2YBB, called the agreement "a significant development in the League's 30-year pursuit to secure the ability to erect Amateur Radio antennas in deed restricted communities."

ARRL General Counsel Chris Imlay, W3KD, said the League was pleased to have reached an agreement with CAI over new proposed language in this legislation that both ARRL and CAI endorse and support. "We agree with CAI that the substitute amendment is balanced, and we think that this bill's language is more objective and offers perhaps more guidance to HOAs than would the PRB-1 'reasonable accommodation' test for municipal land use regulations," he said.

Imlay explained that ARRL did not have the final language for the substitute amendment until late last week, and the amended bill has not been introduced in the House as of yet. ARRL planned no announcement about the text of the amended House bill until it was introduced. However, because the text became available from the House Office of Legislative Counsel, and as CAI released the text to its members, it was decided to release the amended text now.

"The bottom line," Imlay said, "is that if the bill is enacted, it would allow every amateur living in a deed-restricted community -- for the first time in the history of Amateur Radio in the US -- the ability to install an effective outdoor antenna."

"That would benefit thousands of current and future hams living in deed-restricted communities," Lisenco added.

Imlay explained that the substitute bill would guarantee that a radio amateur living in a deed-restricted community -- including condominium or townhouse communities -- could install and maintain an "effective outdoor antenna." Achieving the agreement came without disrupting 30 years of zoning case law that has interpreted the PRB-1 federal preemption and protected radio amateurs from overregulation by zoning authorities. The bill incorporates the basic tenets of PRB-1.

According to the substitute bill's language, the FCC would enact rules prohibiting the application of deed restrictions that preclude Amateur Radio communication on their face or as applied. Also prohibited would be deed restrictions that do not permit an Amateur Radio operator living in a deed-restricted community to install and maintain an effective outdoor antenna on property under the licensee's exclusive use or control.

The substitute bill would prohibit deed restrictions that do not impose the minimum practicable restriction on amateur communication to accomplish the lawful purposes of a homeowners association (HOA) seeking to enforce the restriction. Amateurs wishing to install an antenna in a deed-restricted community would have to notify and obtain prior

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New Extra Question Pool to Take Effect July 1

On July 1, 2016 a new Element 4 Extra class question pool will take effect for examinations. VECs and VEs will have new test designs available for use at exam sessions effective that date.

The newly revised pool released in January 2016 (updated and re-released March 5, 2016) by the Question Pool Committee (QPC) of the National Conference of Volunteer Examiner Coordinators (NCVEC) must be in use starting July 1st. There are 12 graphics required for this pool and 713 questions in this pool, up slightly from 702 in the previous pool. Question E9H03 was deleted from the pool and should not appear on exams. The balance of E9H section was not re-numbered, leaving 10 questions. To view all three questions pools, visit the NCVEC web site at www.ncvec.org/.

ARRL VEC VE Exam Maker Software will be updated around mid-June with the new Extra pool and will be available for generating new exam versions. ARRL VEC will supply officially appointed Field Stocked VE teams with new exam booklet designs also around mid-June. Field stocked teams that have not conducted test sessions within the past year no longer meet the field stock requirements and will not receive an updated package.

Teams that hold on to the exam package after their exam session are NOT officially stocked. Non-stocked VE Teams should be returning their exam packages and supplies to ARRL VEC after the session is completed. The officially stocked VE Teams receive their exam supplies in a large box which is a 6 month to year supply depending on the team's activity levels. To see if your team qualifies to be field-stocked with a bulk quantity of our test materials visit <http://www.arrl.org/field-stocked-ve-teams>.

With the Extra class exam questions changing July 1st, new test designs must be used effective that day. Previous ARRL VEC supplied Extra class exam booklets versions (2012 series) and computer generated Extra class exams created from the 2012 question pool are only valid until midnight June 30, 2016. At that time VE Team leaders may destroy the old versions of the Extra exams.

The question pools review is part of a regular process and each question pool is reviewed and updated on a four year rotation. No question pools are scheduled to be updated or released in 2017. Useful information pertaining to the pools can be viewed on the ARRL Web at www.arrl.org/question-pools.

(Continued from page 6) - ARRL, Community Associations Institute Find Common Ground on Parity Act:

approval of the homeowners association. HOAs would be able to preclude the installation of antennas in common areas -- ie, property not under the licensee's exclusive use.

The substitute measure provides that HOAs could enact reasonable written rules governing height, location, size, and aesthetic impact of outdoor antennas and support structures, as well as installation requirements. Those rules could not preclude amateur communication nor restrict the absolute entitlement of each amateur living in a deed-restricted community to an effective outdoor antenna, however. The amended measure reiterates the strong federal interest in Amateur Radio communication in a licensee's residence.

"Community associations should fairly administer private land use regulations in the interest of their communities, while nevertheless permitting the installation and maintenance of effective outdoor Amateur Radio antennas," the negotiated language states. "There exist antenna designs and installations that can be consistent with the aesthetics and physical characteristics of land and structures in community associations while accommodating communications in the Amateur Radio services."

Lisenco cautioned that getting the Amateur Radio Parity Act signed into law still remains a long process. "Much work needs to be done," Lisenco said. "ARRL will still need to call upon the entire membership to contact their elected officials, especially in the Senate, to ask for their affirmative vote on this bill," he stressed.

More information <http://www.arrl.org/amateur-radio-parity-act> on the Amateur Radio Parity Act, including a copy of the complete substitute amendment agreed to by ARRL and CAI, is available on the ARRL website.

Source: The ARRL Letter



“Thunderstruck”

So, you think HAM radio is ho-hum and boring, huh? Do you prefer all kinds of scandal, mayhem, infidelity, murder, corporate and government espionage, wars, police manhunts, every kind of conspiracy imaginable, cross ocean chases and financial double dealings? Is that what keeps you up at night after our Tuesday night net signs off? You need to read “Thunderstruck” by Erik Larson.

In his book, “Thunderstruck”, Erik Larson tells the interwoven stories of two men—Hawley Crippen, a very unlikely murderer, and Guglielmo Marconi, the obsessive creator of a seemingly supernatural means of communication—whose lives intersect during one of the greatest criminal chases of all time.

The Italian, Guglielmo Marconi came to Britain, where he founded the Marconi Wireless Telegraph Company and in 1901 made the first transatlantic wireless signal.

Set in Edwardian London and on the stormy coasts of Cornwall, Cape Cod, and Nova Scotia. “Thunderstruck” evokes the dynamism of those years when great shipping companies competed to build the biggest, fastest ocean liners. Scientific advances dazzled the public with visions of a world transformed. And the rich outdid one another with ostentatious displays of wealth. Against this background, Marconi races against incredible odds and relentless skepticism to perfect his invention: the wireless, a prime catalyst for the emergence of the world we know today. Meanwhile, Crippen, “the kindest of men,” nearly commits the perfect murder.

Erik Larson guides us through a relentlessly suspenseful chase over the waters of the North Atlantic. Along the way, he tells of a sad and tragic love affair that was described on the front pages of newspapers around the world, a chief inspector who found himself strangely sympathetic to the killer and his lover, and a driven and compelling inventor who transformed the way we communicate.

“Thunderstruck” by Erik Larson will defiantly wean you off your caffeine habit while you’re DX’ing on 40 meters after midnight.

73
Tom Parkes, KI6DDB

Taking Parks to the Air, with the Help of Some Hams

I recently received the [following article](#) as one of several on various National Parks related topics from the National Parks Conservation Association blog, describing “How amateur radio enthusiasts are celebrating the National Park Service centennial by transmitting their adventures around the globe”. They’re referring of course to NPOTA, or National parks on the Air. Operated as a cooperative ARRL- National Parks Service project, NPOTA is coordinated with the National Park System as one of their 100th anniversary activities.

If you plan traveling to and through any of our National Parks, Monuments, Seashores, etc. this summer or through the rest of 2016, you might want to take that portable or mobile HF rig along and try some contacts, either with other National Parks on the Air (NPOTA) stations, or the ham community at large.

Also, operating from NP campsites, parking lots, etc., is a great way to be an ambassador for Amateur Radio. Although it’s not deemed required by the NP Service, it would be a good idea to let the park rangers know what you’re up to. They’re trained and familiar with this year being the NPOTA year, so they might be able to offer you some preferred locations, etc.

Enjoy, and 73 de Ray, AE6H
SOARA President

[Taking Parks to the Air, with the Help of Some Hams](#)



Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
General Meeting 7:00 PM	25	22	21	18	16	20	18	15	19	17	21	-
Program	TASMA	LFP Batteries	WU6D	Arnie Shatz N6HC	Spring Auction	Field Day Prep	TBD	SOARA Fair	TBD	TBD	Fall Auction	-
VE Testing	25	22	21	18	16	At Field Day 25	18	15	19	17	21	--
Educational Classes	Tech 23	Extra 20	Tech 19	-	General 14	Tech 18	Extra 16	-	Tech 17	-	-	-
SOARA Saturdays (9am)	30 Murray	27 Murray	26 Murray	23 Gilleran	21 Gilleran	18 Gilleran	23 Gilleran	20 Murray	24 Murray	22 Murray	26 Murray	-
SOARA T-Hunt	10	14	6	3	1	5	3	14	4	2	6	11
Board Meeting	Feb 1	29	28	25	23	27	25	22	26	24	28	-
Special Events	Quartzfest 17-23	Yuma Hamfest 19-20	Palm Springs Hamfest 12	Visalia Intl DX 15-17	Dayton Hamven- tion 20-22	ARRL Field Day 25-26	HRO Ham Jam 16	SOARA Picnic 7	ARRL SW Division	JOTA 14-16		SOARA Holiday Party 4
Ham-Related Swap Meets	TRW 30 C.A.R.S. 16	27 20	26 19	30 16	28 21	25 18	30 16	27 20	24 17	29 15	26 19	31 17
Major HF Contests		ARRL DX-CW 20-21 CQWPX RTTY 13-14	ARRL DX-SSB 5-6 CQWPX SSB 26-27		CQWPX CW 28-29	ARRL Field Day 25-26			CQWW RTTY 24-25	CQWW SSB 26-27	CQWW CW 26-27	
Volunteer Events	OC Chili Run 23	Paws Fur Pink 21 OC Chili Run 27	OC Chili Run 19 Baker to Vegas 19-20	Desert Storm Rally 1-2	HD Trails 7-8 OC Mara- -thon 1 Memorial Day 1/2 Mara- -thon 30	ARRL Field Day/ Setup/ Ops/ Clean 24-26	4th of July Fire -works 4			Vision Quest		Run for a Claus

*Dates subject to change. Check the [SOARA website](#) to verify locations and times.

OC Marathon Panorama
Taken by Dave, KS6RFI



SOARA meets at the [Norman P. Murray Center](#), 24932 Veterans Way, Mission Viejo, CA on the third Monday of every month at 7:00 PM. For the months of January and February the third Monday is a holiday and the meeting is held on the fourth Monday.



License Exams: Amateur License Exams are given prior to SOARA meetings, except June. **Exams are at 6pm.** Prior registration is not required and walk-in applicants are welcome. For June, exams are held at Field Day. For further information, email Sean Reigle, AJ6B, at aj6b@soara.org.

SOARA Library: SOARA has many amateur radio related books such as hand books, books about electrical theory, etc. available to lend out to club members. Contact Heiko Peschel ad6oi@soara.org for more info.

Web Site: SOARA maintains a web site with current club information. The URL is: <http://www.soara.org/>

Repeaters: The Laguna Beach, San Clemente, and Trabuco repeaters are open. The Santiago Peak repeaters are closed. For details or questions on the repeaters contact the repeater director, or repeater@soara.org.

	2m — 147.645 — (110.9)	Laguna Beach
	2m — 146.025 + (110.9)	San Clemente
	2m — 145.240 — (110.9)	Trabuco
D-STAR	2m — 146.115 + (K6SOA C)	Laguna Beach
	220 — 224.100 — (110.9)	Laguna Beach
	220 — 224.640 — (123.0)	Santiago Peak. (C)
	440 — 445.660 — (110.9)	Laguna Beach
D-STAR	440 — 445.705 — (K6SOA B)	Laguna Beach
	440 — 447.180 — (131.8)	Santiago Peak. (C)
D-STAR	1.2G 1282.600 — (K6SOA A)	Laguna Beach

Nets:

UHF/VHF (447.180, 147.645 & 224.640): Tuesdays 8:00 PM

D-STAR (146.115 C module):
Wednesdays 7:30pm

40 meter HF (7.200 MHz +/- for QRM), Sundays 8:00 AM.

Gordo Net (HF 7.250 MHz +/- for QRM), Weekdays 8:30AM



SOARA OFFICERS

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